

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Applicants : Jun Xu, Gaurav Jain
Serial No. : (Unknown)
Filed : April 13, 2004
For : IRON OXYHYDROXIDES AS ION
INTERCALATION MATERIALS AND SYNTHESIS
METHOD THEREOF
Examiner: : (Unknown)
Group Art Unit : (Unknown)
Atty. Docket No. : 879.1.007

EXPRESS MAIL CERTIFICATE	
DATE	April 13, 2004
LABEL NO.	EV 026600435 US
I HEREBY CERTIFY THAT, ON THE DATE INDICATED ABOVE, I DEPOSITED THIS PAPER OR FEE WITH THE UNITED STATES POSTAL SERVICE AND THAT IT WAS ADDRESSED FOR DELIVERY TO THE COMMISSIONER FOR PATENTS, ALEXANDRIA, VA 22313-1450 BY "EXPRESS MAIL POST OFFICE TO ADDRESSEE" SERVICE.	
NAME (PRINT)	Kenneth Watov
SIGNATURE	<i>Kenneth Watov</i>

April 9, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Transmitted herewith is an Information Disclosure Statement ("IDS") in the above-referenced Application, together with a Form-1449 listing all references cited and a copy of each reference.

This IDS is being mailed within three (3) months of filing of the above-captioned Application, if it is a National Application, or within three (3) months of entering, as set forth in 37 C.F.R. § 1.491, the national stage of the above-captioned Application, if the above-captioned Application is an International Application. Therefore, consideration of the IDS by the Patent and Trademark Office, without the payment of any additional fee, is believed to be due under 37 C.F.R. § 1.97(b). However, the Commissioner is hereby authorized to charge Deposit Account No. 23-0510 if any fee under 37 C.F.R. 1.17 is deemed necessary for the accompanying references to be considered by the Patent and Trademark Office.

All the references are in English and/or are cited in an accompanying English language version of the Search Report by another Patent Office, so that comment on the references by the Applicant is not required under 37 C.F.R. § 1.98(a).

Respectfully submitted,



Kenneth Watov, Esq.
Registration No. 26,042
Attorney for Applicants

ADDRESS ALL CORRESPONDENCE TO:

Kenneth Watov, Esq.
WATOV & KIPNES, P.C.
P.O. Box 247
Princeton Junction, NJ 08550
(609) 243-0330

Form PTO-1449 (REV. 8-83) U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		ATTY. DOCKET NO. 879.1.007 SERIAL NO. (Unknown)		APPLICANT(S) Jun Xu et al. FILING DATE April 13, 2004 GROUP (Unknown)			
U.S. PATENT DOCUMENTS							
Examiner Initial		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,268,085	7/01	Manthiram et al.	429	224	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Amine, K.; Yasuda, H.; Yamachi, M.; "β-FeOOH, a new positive electrode material for lithium secondary batteries"; Elsevier Journal of Power Sources Vol. 81-82, pages 221-223, 1999.					
		Matsumura, T.; Kanno, R.; Inaba, Y.; Kawamoto, Y.; Takano, M.; "Synthesis, Structure, and Electrochemical Properties of a New Cathode Material, LiFeO ₂ , with a Tunnel Structure"; Journal of the Electrochemical Society, Vol. 149, No. 12, pages A1509-A1513; 10/15/2002.					
		Kanno, R.; Shirane, T.; Inaba, Y.; Kawamoto, Y.; "Synthesis and electrochemical properties of lithium iron oxides with layer-related structures"; Elsevier Journal of Power Sources Vol. 68, pages. 145-152, 1997.					
		Shirane, T.; Kanno, R.; Kawamoto, Y.; Takeda, Y.; Takano, M.; Kamiyama, T.; Izumi, F.; "Structure and physical properties of lithium iron oxide, LiFeO ₂ , synthesized by ionic exchange reaction"; Elsevier Solid State Ionics, Vol. 79, pages. 227-233, 1995.					
		Yun Sung Lee; Chong Seung Yoon; Yang Kook Sun; Kobayakawa, K.; Yuichi Sato; "Synthesis of nano-crystalline LiFeO ₂ material with advanced battery performance"; Elsevier Electrochemistry Communications Vol. 4, pages 727-731, 7/31/2002.					
		Sakurai, Y.; Arai, H.; Yamaki, J.-I.; "Preparation of electrochemically active α-LiFeO ₂ at low temperature"; Elsevier Solid State Ionics, Vol. 113-115, pages 29-34, 9/14/1998.					
		K. Kanamura, H. Sakaebe, C. Zhen and Z. Takehara; Application of FeOCl Derivative for a Secondary Lithium Battery - I. Discharge and Charge Characteristics of Amorphous FeOOH Prepared by Ion Exchange Reaction of FeOCl with Aniline"; Journal of Electrochemical Society, Vol. 138, No. 10, pages 2971-2975, October 1991.					
		K. Kanamura, H. Sakaebe and Z. Takehara; "Application of FeOCl derivatives as cathode materials for a secondary lithium battery - II Comparison of the discharge and charge characteristics of γ-FeOOH prepared from the intercalation compound of FeOCl and 4-aminopyridine with those of FeOOH intercalated with Aniline"; Elsevier Sequoia, Journal of Power Sources, Vol. 40, pages 291-298, 6/30/1992.					
		Kanno, R.; Shirane, T.; Kawamoto, Y.; Takeda, Y.; Takano, M.; Ohashi, M.; Yamaguchi, Y.; "Synthesis, Structure, and Electrochemical Properties of a New Lithium Iron Oxide, LiFeO ₂ , with a Corrugated Layer Structure"; Electrochemical Society Vol. 143, No. 8, pages 2435-2441, August 1996.					
		H. Sakaebe, Shunichi Higuchi, K. Kanamura, H. Fujimoto and Z. Takehara; Discharge and Charge Characteristics of Amorphous FeOOH Including Aniline (a _{an} -FeOOH) - Influence of Preparation Conditions on Discharge and Charge Characteristics"; Journal of Electrochemical Society, Vol. 142, No. 2, pages 360-365, February 1995.					
		D. E. Reisner, Alvin J. Salkind, Peter R. Strutt, T. Danny Xiao; "Nickel hydroxide and other nanophase cathode materials for rechargeable batteries"; Elsevier Journal of Power Sources Vol. 65, pages 231-233, 1997.					
Examiner					DATE CONSIDERED		
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							